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Applicant: Bernd Hans Faigle

Serial No: 10/065,385

Filed: 10/11/2002

Title: Rotary Machine Element and Method for Detecting Positional Values of at Least one Functional Part of Such a Rotary Machine Element

Examiner: Le D. Dang

Art Unit: 2834

OFFICIAL

Commissioner for Patents

Alexandria, VA 22313-1450

AMENDMENT

In response to the office action dated 12/24/2003, please amend the instant application as follows:

IN THE SPECIFICATION:

Please substitute the attached amended paragraphs 0008 and 0013 of the specification for the corresponding paragraphs on file.

IN THE CLAIMS:

The claims are amended as shown in the attached marked-up complete list of claims.

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6/23/04: Amd for Ser. No. 10/065,385 - Inventor(s): Bernd Hans Faigl - Filing Dat : 10/11/2002

REPLACEMENT PARAGRAPH 0008

[0008] Chucks are known from DE 200 12 080 in which the mechanical position of the piston rod is detected by a control system based on magnetostrictive sensors. The position sensors are used in analogy to terminal proximity switches, i.e., the nominal positions provided during the course of the function or the terminal stop positions are controlled. Additional functions, for example, NC-controlled (NC = numerical control) moving of the chuck functions between the stop positions, measuring, checking, or moving for determining a reference point, are not realized.

REPLACEMENT PARAGRAPH 0013

[0013] The rotary machine element according to the invention is characterized in that the position sensor is located in a control and/or regulating path between the functional part and the NC-control. The control and/or regulating path (for short "control path" ~~A control path@~~) is active in positions between the nominal stop positions and/or the mechanical terminal stop positions. The position sensor enables efficient diagnostic methods particularly in the nominal position or in the mechanical terminal stop position. Procedures for a simplified detection or determination of the nominal position, also referred to as reference point methods, are enabled by the position sensor. The control and regulating function is enabled by a continuous and highly precise measurement of the actual position of the functional part.